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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/082,125	02/26/2002	Jae Deok Park	8733.528.00	5395	
30827	7590 10/05/2005		EXAM	EXAMINER	
MCKENNA	LONG & ALDRIDGE I	LLP	MENGISTU	J, AMARE	
1900 K STRE	EET, NW				
WASHINGTON DC 20006			ART UNIT	PAPER NUMBER	

2673

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/082,125	PARK, JAE DEOK				
Office Action Summary	Examiner	Art Unit				
	Amare Mengistu	2673				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence addres	is			
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory portion of the period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MC statute, cause the application to become a	ICATION. The reply be timely filed ONTHS from the mailing date of this communication (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	25 August 2005					
	This action is non-final.					
3) Since this application is in condition for all		tters, prosecution as to the me	erits is			
closed in accordance with the practice und	*	· ·				
Disposition of Claims		,	· -			
_			: :			
4) Claim(s) <u>1-17</u> is/are pending in the applica						
4a) Of the above claim(s) <u>2,7-9 and 11-17</u>	is/are withorawn from consid	eration.	;			
5) Claim(s) <u>3-6 and 10</u> is/are allowed.			:			
· <u> </u>						
7) Claim(s) is/are objected to.			1 -			
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exa	miner.					
10) The drawing(s) filed on is/are: a) □	accepted or b) □ objected to	by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co	prrection is required if the drawir	g(s) is objected to. See 37 CFR 1	.121(d).			
11) The oath or declaration is objected to by the	e Examiner. Note the attach	ed Office Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for for a)☐ All b)☐ Some * c)☐ None of:	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
 Certified copies of the priority docur 	nents have been received.					
2. Certified copies of the priority docur	nents have been received in	Application No				
3. Copies of the certified copies of the	priority documents have bee	n received in this National Sta	ge .			
application from the International Bu	ıreau (PCT Rule 17.2(a)).		:			
* See the attached detailed Office action for a	a list of the certified copies no	ot received.				
An			f .			
Attachment(s) 1) Notice of References Cited (PTO-892)	A) [] Imdon doc	v Summary (PTO-413)				
 1) Notice of References Cited (P10-692) 2) Notice of Draftsperson's Patent Drawing Review (PT0-948) 		o(s)/Mail Date	•			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date		f Informal Patent Application (PTO-15	2)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by **Takeda et al.** (4,799,057).
- 3. In regard to claim 1, **Takeda** discloses a bi-directional driving circuit of a liquid crystal display (LCD) panel having a plurality of blocks. See column 1, lines 54-59, disclosing, "a driving circuit of the present invention, for a matrix liquid crystal display device... is divided into a plurality of blocks". Note, as depicted in figure 2, that the matrix liquid crystal display has a row and column driver and is thus driven bi-directionally.

Takeda further discloses that each block comprises a second start pulse input terminal for selectively receiving one of the start pulse and an output signal of a next block. See column 4, lines 19-24, disclosing, "Referring to FIG. 1, 41 denotes a sampling circuit which is divided into four blocks 41a~41d. The operation of the blocks are controlled by control signals Ea~Ed respectively. That is, each sampling circuit block is operated when the corresponding control signal is of high level". Inherently, there is an input terminal in each of the four blocks that receives this control signal,

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which is a start pulse. Thus, Takeda discloses that each block comprises a second start pulse input terminal for receiving one of the start pulse and an output signal of a next block. Specifically, each block comprises a second start pulse input terminal for receiving the start pulse.

Takeda further discloses that each block comprises a first start pulse input terminal for receiving one of a start pulse and an output signal of a previous block. See column 5, lines 39-65, disclosing, "FIGS. 6(A) and (B) are another example of the sampling circuit block 41a in the sampling circuit 41 and its driving waveform respectively...a pulse "D" (high level) to be shifted is inputted in the circuit... so that the circuit starts operation. When the pulse is sequentially shifted to the final stage q.sub.m, q.sub.m serves as an input pulse "D" for the next block. On receiving the pulse "D", the next circuit block starts operation...the sampling circuit of the above construction is automatically actuated by the input pulse "D" and automatically interrupted when operation is over". Thus, each block has inherently has a terminal that receives this output signal of a previous block. Thus, Takeda discloses that each block comprises a first start pulse input terminal for receiving one of a start pulse and an output signal of a previous block. Specifically, Takeda discloses that each block comprises a first start pulse input terminal for receiving an output signal of a previous block.

Allowable Subject Matter

4. Claims 3-6 and 10 are allowed.

5. The following is an examiner's statement of reasons for allowance: The particular configuration of the first through ninth switching elements, as recited in claim 3, in a bidirectional driving circuit block, was not found in any prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

- 6. Applicant's arguments filed August 25,2005 have been fully considered but they are not persuasive. In regard to applicant's arguments on page 9, see the above rejection of claim 1 for further clarification.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amare Mengistu whose telephone number is (571) 272-7674. The examiner can normally be reached on M-F,T-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amare Mengistu Primary Examiner

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AM

10/02/05